

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988–97

Years	Total U.S. articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988–91	189,784	96,916	92,869	71,134	21,735	48.9	37.5	11.5
1992–94	193,519	91,066	102,453	73,713	28,740	52.9	38.1	14.9
1995–97	190,459	82,277	108,182	73,929	34,253	56.8	38.8	18.0
Physics								
1988–91	20,273	10,692	9,582	5,844	3,737	47.3	28.8	18.4
1992–94	21,357	9,753	11,605	6,323	5,282	54.3	29.6	24.7
1995–97	21,312	8,679	12,633	6,209	6,424	59.3	29.1	30.1
Chemistry								
1988–91	14,275	9,455	4,820	3,214	1,607	33.8	22.5	11.3
1992–94	14,798	9,093	5,705	3,554	2,151	38.6	24.0	14.5
1995–97	14,822	8,518	6,304	3,795	2,509	42.5	25.6	16.9
Earth and space sciences								
1988–91	9,300	4,419	4,881	3,073	1,807	52.5	33.0	19.4
1992–94	10,422	4,355	6,067	3,543	2,525	58.2	34.0	24.2
1995–97	11,478	4,231	7,247	3,946	3,301	63.1	34.4	28.8
Mathematics								
1988–91	4,037	2,338	1,699	865	834	42.1	21.4	20.6
1992–94	3,769	2,004	1,765	849	916	46.8	22.5	24.3
1995–97	3,419	1,724	1,695	780	916	49.6	22.8	26.8
Clinical medicine								
1988–91	57,768	22,369	35,399	30,095	5,304	61.3	52.1	9.2
1992–94	58,861	21,607	37,254	30,099	7,155	63.3	51.1	12.2
1995–97	58,535	19,648	38,887	30,103	8,784	66.4	51.4	15.0
Biomedical research								
1988–91	30,213	13,886	16,327	12,232	4,095	54.0	40.5	13.6
1992–94	32,249	13,286	18,963	13,486	5,477	58.8	41.8	17.0
1995–97	32,547	12,427	20,119	13,776	6,343	61.8	42.3	19.5
Biology								
1988–91	14,318	8,297	6,022	4,484	1,538	42.1	31.3	10.7
1992–94	13,184	7,119	6,064	4,331	1,733	46.0	32.9	13.1
1995–97	12,373	6,171	6,202	4,228	1,975	50.1	34.2	16.0
Engineering and technology								
1988–91	12,333	7,549	4,784	3,397	1,388	38.8	27.5	11.3
1992–94	13,110	7,438	5,672	3,869	1,803	43.3	29.5	13.8
1995–97	12,173	6,451	5,723	3,712	2,011	47.0	30.5	16.5
Psychology								
1988–91	6,987	4,312	2,675	2,295	380	38.3	32.9	5.4
1992–94	6,466	3,798	2,668	2,224	443	41.3	34.4	6.9
1995–97	6,284	3,545	2,739	2,180	559	43.6	34.7	8.9
Social sciences								
1988–91	9,043	6,266	2,776	2,145	631	30.7	23.7	7.0
1992–94	8,559	5,746	2,814	2,057	757	32.9	24.0	8.8
1995–97	7,774	4,998	2,776	1,974	801	35.7	25.4	10.3
Health and professional fields								
1988–91	11,240	7,334	3,905	3,490	415	34.7	31.1	3.7
1992–94	10,744	6,868	3,876	3,379	497	36.1	31.4	4.6
1995–97	9,742	5,886	3,856	3,226	630	39.6	33.1	6.5

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988-97

Years	Total academic articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988-91	151,186	70,446	80,740	63,763	16,977	53.4	42.2	11.2
1992-94	155,706	67,163	88,543	65,901	22,642	56.9	42.3	14.5
1995-97	154,999	61,725	93,275	66,294	26,980	60.2	42.8	17.4
Physics								
1988-91	14,463	6,495	7,969	5,140	2,828	55.1	35.5	19.6
1992-94	16,224	6,436	9,788	5,605	4,183	60.3	34.6	25.8
1995-97	16,894	6,139	10,755	5,587	5,168	63.7	33.1	30.6
Chemistry								
1988-91	10,938	6,806	4,133	2,841	1,292	37.8	26.0	11.8
1992-94	11,601	6,761	4,839	3,127	1,713	41.7	27.0	14.8
1995-97	11,818	6,456	5,362	3,362	2,000	45.4	28.5	16.9
Earth and space sciences								
1988-91	6,781	2,851	3,931	2,623	1,307	58.0	38.7	19.3
1992-94	7,856	2,950	4,906	3,014	1,892	62.5	38.4	24.1
1995-97	8,828	2,946	5,882	3,394	2,488	66.6	38.4	28.2
Mathematics								
1988-91	3,783	2,151	1,632	847	785	43.1	22.4	20.8
1992-94	3,563	1,863	1,700	829	871	47.7	23.3	24.4
1995-97	3,271	1,620	1,650	767	883	50.5	23.5	27.0
Clinical medicine								
1988-91	46,627	15,883	30,744	26,738	4,006	65.9	57.3	8.6
1992-94	47,358	15,321	32,037	26,610	5,427	67.6	56.2	11.5
1995-97	47,102	13,913	33,188	26,613	6,575	70.5	56.5	14.0
Biomedical research								
1988-91	24,946	10,542	14,404	11,207	3,197	57.7	44.9	12.8
1992-94	26,797	10,115	16,682	12,411	4,272	62.3	46.3	15.9
1995-97	27,085	9,467	17,619	12,679	4,939	65.0	46.8	18.2
Biology								
1988-91	11,726	6,351	5,376	4,128	1,248	45.8	35.2	10.6
1992-94	10,767	5,399	5,368	3,936	1,432	49.9	36.6	13.3
1995-97	10,192	4,717	5,475	3,869	1,606	53.7	38.0	15.8
Engineering and technology								
1988-91	8,100	4,369	3,731	2,705	1,026	46.1	33.4	12.7
1992-94	8,977	4,557	4,420	3,099	1,321	49.2	34.5	14.7
1995-97	8,685	4,158	4,527	3,018	1,509	52.1	34.7	17.4
Psychology								
1988-91	6,505	3,913	2,593	2,240	353	39.9	34.4	5.4
1992-94	6,007	3,428	2,579	2,166	413	42.9	36.1	6.9
1995-97	5,891	3,234	2,657	2,132	525	45.1	36.2	8.9
Social sciences								
1988-91	7,869	5,264	2,605	2,050	555	33.1	26.0	7.1
1992-94	7,434	4,809	2,625	1,959	666	35.3	26.3	9.0
1995-97	6,833	4,255	2,578	1,877	702	37.7	27.5	10.3
Health and professional fields								
1988-91	9,448	5,824	3,624	3,243	381	38.4	34.3	4.0
1992-94	9,123	5,524	3,599	3,146	453	39.5	34.5	5.0
1995-97	8,401	4,820	3,581	2,996	585	42.6	35.7	7.0

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988–97

Years	U.S. industry articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988–91	20,563	9,692	10,871	8,893	1,978	52.9	43.2	9.6
1992–94	21,536	8,403	13,134	10,225	2,909	61.0	47.5	13.5
1995–97	20,799	6,753	14,046	10,478	3,568	67.5	50.4	17.2
Physics								
1988–91	4,167	2,182	1,985	1,520	465	47.6	36.5	11.2
1992–94	3,773	1,559	2,214	1,601	613	58.7	42.4	16.2
1995–97	3,051	971	2,080	1,446	634	68.2	47.4	20.8
Chemistry								
1988–91	2,684	1,697	987	771	216	36.8	28.7	8.1
1992–94	2,708	1,476	1,231	914	317	45.5	33.8	11.7
1995–97	2,513	1,212	1,301	920	381	51.8	36.6	15.2
Earth and space sciences								
1988–91	960	308	652	528	124	67.9	55.0	12.9
1992–94	1,072	286	786	601	185	73.3	56.1	17.3
1995–97	1,118	215	903	660	243	80.8	59.0	21.8
Mathematics								
1988–91	197	73	124	94	30	63.0	47.8	15.2
1992–94	197	54	143	105	37	72.5	53.6	19.0
1995–97	143	36	107	81	26	74.7	56.7	17.9
Clinical medicine								
1988–91	4,297	1,410	2,887	2,423	464	67.2	56.4	10.8
1992–94	5,217	1,440	3,776	3,000	777	72.4	57.5	14.9
1995–97	5,826	1,308	4,518	3,374	1,144	77.6	57.9	19.6
Biomedical research								
1988–91	2,352	858	1,495	1,180	315	63.5	50.2	13.4
1992–94	2,789	862	1,927	1,430	496	69.1	51.3	17.8
1995–97	2,882	823	2,059	1,460	599	71.4	50.7	20.8
Biology								
1988–91	656	239	417	358	59	63.5	54.6	9.0
1992–94	710	239	471	398	73	66.4	56.1	10.3
1995–97	710	209	500	400	100	70.5	56.4	14.1
Engineering and technology								
1988–91	3,662	2,006	1,656	1,390	266	45.2	38.0	7.3
1992–94	3,718	1,752	1,966	1,607	359	52.9	43.2	9.7
1995–97	3,346	1,370	1,976	1,588	387	59.1	47.5	11.6
Psychology								
1988–91	185	60	124	116	9	67.3	62.7	4.6
1992–94	153	47	106	94	12	69.1	61.1	8.0
1995–97	161	54	107	94	13	66.7	58.6	8.1
Social sciences								
1988–91	318	192	127	115	12	39.7	36.1	3.6
1992–94	268	147	120	110	10	45.0	41.1	3.9
1995–97	264	129	135	118	17	51.1	44.8	6.3
Health and professional fields								
1988–91	1,086	669	417	399	19	38.4	36.7	1.7
1992–94	933	540	393	364	28	42.1	39.1	3.0
1995–97	786	427	360	336	24	45.7	42.7	3.1

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988-97

Years	U.S. Federal Government articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988-91	22,105	6,999	15,106	12,695	2,411	68.3	57.4	10.9
1992-94	22,487	6,439	16,048	12,865	3,183	71.4	57.2	14.2
1995-97	22,100	5,492	16,608	12,784	3,824	75.1	57.8	17.3
Physics								
1988-91	1,496	599	897	701	196	59.9	46.8	13.1
1992-94	1,760	597	1,163	871	292	66.1	49.5	16.6
1995-97	1,695	509	1,185	857	329	69.9	50.6	19.4
Chemistry								
1988-91	944	473	471	373	98	49.9	39.5	10.4
1992-94	980	435	546	414	132	55.7	42.2	13.4
1995-97	988	412	576	431	144	58.3	43.7	14.6
Earth and space sciences								
1988-91	1,877	632	1,245	933	312	66.3	49.7	16.6
1992-94	2,141	558	1,582	1,101	481	73.9	51.4	22.5
1995-97	2,437	516	1,921	1,267	654	78.8	52.0	26.8
Mathematics								
1988-91	111	48	63	51	12	56.6	45.7	10.9
1992-94	92	31	61	48	13	66.4	52.3	14.1
1995-97	75	27	48	39	10	64.2	51.3	12.8
Clinical medicine								
1988-91	8,695	1,736	6,959	6,098	861	80.0	70.1	9.9
1992-94	8,402	1,572	6,831	5,730	1,101	81.3	68.2	13.1
1995-97	8,217	1,326	6,891	5,537	1,354	83.9	67.4	16.5
Biomedical research								
1988-91	3,887	1,167	2,720	2,151	569	70.0	55.3	14.6
1992-94	4,048	1,094	2,954	2,204	750	73.0	54.5	18.5
1995-97	3,955	947	3,008	2,177	832	76.1	55.0	21.0
Biology								
1988-91	2,630	1,213	1,417	1,190	227	53.9	45.2	8.6
1992-94	2,503	1,053	1,450	1,201	248	57.9	48.0	9.9
1995-97	2,371	885	1,485	1,179	306	62.7	49.7	12.9
Engineering and technology								
1988-91	1,086	484	602	525	78	55.4	48.3	7.1
1992-94	1,220	464	757	653	104	62.0	53.5	8.5
1995-97	1,148	392	756	636	119	65.8	55.4	10.4
Psychology								
1988-91	311	88	223	208	15	71.6	66.9	4.7
1992-94	284	81	204	186	17	71.6	65.5	6.1
1995-97	272	66	206	183	24	75.9	67.2	8.7
Social sciences								
1988-91	572	325	247	218	29	43.2	38.2	5.0
1992-94	558	326	232	206	26	41.6	37.0	4.6
1995-97	466	233	233	202	31	50.0	43.4	6.6
Health and professional fields								
1988-91	499	234	264	250	15	53.0	50.1	3.0
1992-94	498	229	269	250	19	54.0	50.2	3.8
1995-97	475	178	297	276	21	62.5	58.0	4.4

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988–97

Years	U.S. university-administered FFRDC articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988–91	5,192	1,807	3,386	2,301	1,085	65.2	44.3	20.9
1992–94	5,426	1,532	3,894	2,406	1,489	71.8	44.3	27.4
1995–97	6,093	1,493	4,600	2,556	2,043	75.5	42.0	33.5
Physics								
1988–91	2,582	896	1,686	1,067	620	65.3	41.3	24.0
1992–94	2,677	756	1,921	1,056	865	71.8	39.4	32.3
1995–97	2,877	696	2,181	1,071	1,110	75.8	37.2	38.6
Chemistry								
1988–91	463	168	295	229	66	63.6	49.4	14.3
1992–94	431	124	307	224	83	71.2	51.9	19.3
1995–97	543	142	402	282	120	73.9	51.9	22.0
Earth and space sciences								
1988–91	865	245	620	404	216	71.7	46.7	24.9
1992–94	988	231	757	454	303	76.6	46.0	30.7
1995–97	1,271	258	1,013	529	484	79.7	41.6	38.1
Mathematics								
1988–91	52	19	33	25	8	63.6	48.1	15.5
1992–94	45	17	28	21	7	62.5	46.3	16.2
1995–97	40	13	27	21	6	68.3	53.3	15.0
Clinical medicine								
1988–91	180	47	134	108	26	74.2	59.8	14.4
1992–94	187	40	147	116	31	78.6	62.1	16.4
1995–97	188	33	155	119	36	82.4	63.2	19.2
Biomedical research								
1988–91	378	125	253	187	67	67.0	49.4	17.6
1992–94	387	81	306	219	87	79.1	56.7	22.4
1995–97	462	98	364	225	139	78.7	48.7	30.0
Biology								
1988–91	33	14	20	16	4	59.4	48.1	11.3
1992–94	44	13	31	26	5	70.2	58.8	11.5
1995–97	64	15	49	32	17	77.1	50.5	26.6
Engineering and technology								
1988–91	583	266	317	243	74	54.4	41.7	12.7
1992–94	620	246	374	269	105	60.3	43.4	16.9
1995–97	614	223	390	264	127	63.6	43.0	20.6
Psychology								
1988–91	3	0	2	2	0	90.0	80.0	10.0
1992–94	4	1	3	3	0	75.0	66.7	8.3
1995–97	2	1	1	1	0	50.0	33.3	16.7
Social sciences								
1988–91	39	20	18	14	4	47.4	36.4	11.0
1992–94	34	19	15	13	2	44.7	38.8	5.8
1995–97	24	10	14	11	4	58.9	43.8	15.1
Health and professional fields								
1988–91	15	8	8	8	0	50.8	49.2	1.6
1992–94	9	4	5	5	1	57.1	50.0	7.1
1995–97	8	5	3	2	1	37.5	29.2	8.3

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988-97

Years	U.S. industry-administered FFRDC articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988-91	1,743	690	1,054	815	239	60.4	46.7	13.7
1992-94	1,787	550	1,237	903	333	69.2	50.6	18.7
1995-97	1,964	502	1,462	1,028	434	74.4	52.3	22.1
Physics								
1988-91	645	268	377	260	117	58.5	40.4	18.1
1992-94	619	179	440	284	156	71.0	45.9	25.2
1995-97	723	177	545	343	202	75.5	47.5	28.0
Chemistry								
1988-91	194	83	111	99	12	57.0	50.8	6.2
1992-94	212	73	139	123	16	65.5	58.0	7.6
1995-97	247	78	169	134	35	68.4	54.2	14.2
Earth and space sciences								
1988-91	70	29	40	34	6	57.9	48.9	9.0
1992-94	73	28	45	38	7	61.5	52.3	9.2
1995-97	83	24	58	48	11	70.6	57.7	12.9
Mathematics								
1988-91	18	9	9	7	2	49.3	38.0	11.3
1992-94	18	8	10	8	2	54.7	45.3	9.4
1995-97	14	5	9	8	2	66.7	54.8	11.9
Clinical medicine								
1988-91	151	32	118	97	22	78.6	64.1	14.5
1992-94	163	22	141	103	38	86.3	62.9	23.5
1995-97	188	17	171	118	53	91.0	62.8	28.1
Biomedical research								
1988-91	249	64	185	147	38	74.4	59.1	15.4
1992-94	268	59	209	148	62	78.0	55.0	23.0
1995-97	296	62	234	169	65	79.1	57.2	22.0
Biology								
1988-91	79	35	45	39	6	56.3	49.4	7.0
1992-94	68	19	49	42	7	72.2	62.0	10.2
1995-97	62	18	45	37	7	71.7	59.9	11.8
Engineering and technology								
1988-91	334	168	166	129	37	49.7	38.7	10.9
1992-94	360	159	201	155	46	55.8	43.0	12.8
1995-97	344	118	226	168	58	65.8	48.8	17.0
Psychology								
1988-91	2	0	2	2	0	88.9	77.8	11.1
1992-94	1	0	1	1	0	100.0	100.0	0.0
1995-97	1	1	0	0	0	0.0	0.0	0.0
Social sciences								
1988-91	3	1	2	2	0	54.5	54.5	0.0
1992-94	2	1	2	2	0	71.4	71.4	0.0
1995-97	6	2	4	3	1	61.1	50.0	11.1
Health and professional fields								
1988-91	1	1	0	0	0	33.3	33.3	0.0
1992-94	2	1	1	1	0	33.3	33.3	0.0
1995-97	1	1	0	0	0	33.3	33.3	0.0

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988–97

Years	U.S. nonprofit-administered FFRDC articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988–91	548	271	277	227	50	50.5	41.5	9.0
1992–94	604	250	354	271	83	58.6	44.9	13.7
1995–97	711	278	433	329	104	60.9	46.2	14.7
Physics								
1988–91	143	79	65	49	16	45.0	34.2	10.8
1992–94	173	80	93	65	28	53.8	37.5	16.3
1995–97	162	74	88	57	31	54.2	34.9	19.3
Chemistry								
1988–91	66	43	23	18	6	35.4	27.0	8.4
1992–94	68	37	31	23	8	45.9	34.1	11.7
1995–97	117	61	57	43	13	48.3	36.9	11.4
Earth and space sciences								
1988–91	57	21	36	27	9	63.2	47.4	15.8
1992–94	61	17	44	34	10	72.5	56.6	15.9
1995–97	81	24	57	36	21	70.4	44.9	25.5
Mathematics								
1988–91	8	3	4	4	1	56.7	50.0	6.7
1992–94	4	2	2	2	0	53.8	53.8	0.0
1995–97	3	1	2	2	0	77.8	66.7	11.1
Clinical medicine								
1988–91	39	7	32	29	3	82.6	74.8	7.7
1992–94	42	11	31	29	2	73.0	68.3	4.8
1995–97	88	17	70	61	9	80.2	70.0	10.3
Biomedical research								
1988–91	50	27	23	19	5	46.7	37.2	9.5
1992–94	51	16	35	26	9	68.8	50.6	18.2
1995–97	66	27	39	34	5	59.4	51.3	8.1
Biology								
1988–91	18	9	9	8	1	50.0	47.1	2.9
1992–94	14	5	9	9	0	66.7	64.3	2.4
1995–97	11	5	6	5	2	55.9	41.2	14.7
Engineering and technology								
1988–91	101	50	51	43	9	50.6	42.0	8.6
1992–94	125	55	71	49	22	56.4	39.1	17.3
1995–97	109	46	63	48	16	57.9	43.6	14.3
Psychology								
1988–91	7	3	4	4	0	57.7	53.8	3.8
1992–94	7	2	5	5	0	75.0	70.0	5.0
1995–97	5	1	4	3	1	80.0	66.7	13.3
Social sciences								
1988–91	32	18	14	13	1	43.3	39.4	3.9
1992–94	36	17	19	16	3	53.3	44.9	8.4
1995–97	33	14	20	17	3	59.0	50.0	9.0
Health and professional fields								
1988–91	29	13	16	15	1	55.3	53.5	1.8
1992–94	23	9	13	13	0	58.8	57.4	1.5
1995–97	35	9	26	23	3	75.2	65.7	9.5

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988-97

Years	U.S. state and local government articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988-91	3,588	842	2,747	2,528	219	76.5	70.5	6.1
1992-94	3,410	723	2,687	2,405	282	78.8	70.5	8.3
1995-97	3,139	592	2,547	2,244	303	81.2	71.5	9.7
Physics								
1988-91	8	3	6	5	1	66.7	54.5	12.1
1992-94	6	1	5	4	1	82.4	70.6	11.8
1995-97	14	0	14	13	1	100.0	90.5	9.5
Chemistry								
1988-91	52	23	30	27	2	56.7	52.4	4.3
1992-94	51	19	32	25	6	62.5	50.0	12.5
1995-97	42	11	31	28	3	73.8	65.9	7.9
Earth and space sciences								
1988-91	193	71	122	111	11	63.2	57.6	5.6
1992-94	180	51	129	116	12	71.6	64.7	6.9
1995-97	197	48	149	131	18	75.8	66.6	9.2
Mathematics								
1988-91	4	1	3	2	1	76.5	52.9	23.5
1992-94	4	1	3	2	0	66.7	58.3	8.3
1995-97	4	2	2	2	0	54.5	45.5	9.1
Clinical medicine								
1988-91	1,945	296	1,649	1,532	117	84.8	78.8	6.0
1992-94	1,822	245	1,577	1,428	148	86.5	78.4	8.1
1995-97	1,661	211	1,450	1,293	157	87.3	77.8	9.5
Biomedical research								
1988-91	460	121	339	288	51	73.8	62.6	11.1
1992-94	433	103	330	268	62	76.3	61.9	14.4
1995-97	417	83	334	259	75	80.2	62.2	17.9
Biology								
1988-91	346	122	224	203	21	64.8	58.7	6.1
1992-94	339	102	237	211	26	70.0	62.4	7.6
1995-97	325	87	239	210	29	73.4	64.5	8.8
Engineering and technology								
1988-91	44	15	29	26	3	66.7	60.3	6.3
1992-94	56	13	43	35	8	76.9	62.1	14.8
1995-97	51	11	40	36	4	78.4	70.6	7.8
Psychology								
1988-91	161	38	123	117	6	76.4	72.8	3.6
1992-94	153	44	109	100	8	71.0	65.6	5.4
1995-97	126	36	90	85	6	71.7	67.2	4.5
Social sciences								
1988-91	77	31	46	45	2	59.9	57.6	2.3
1992-94	77	29	48	47	2	62.8	60.6	2.2
1995-97	67	25	42	39	3	63.0	58.5	4.5
Health and professional fields								
1988-91	298	122	176	171	5	59.1	57.6	1.5
1992-94	290	115	175	167	8	60.3	57.6	2.6
1995-97	236	80	156	149	7	66.2	63.1	3.1

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 6-51.

Incidence of multiple corporate authorship of U.S. scientific and technical articles, by field: 1988–97

Years	U.S. nonprofit organization articles							
	Total articles	One-author articles	Coauthored articles	U.S.-coauthored	Internationally coauthored	Total coauthored	U.S.-coauthored	Internationally coauthored
	Number (annual average)					Percent of total articles		
Total science and engineering								
1988–91	19,855	5,457	14,398	12,352	2,047	72.5	62.2	10.3
1992–94	20,916	5,244	15,672	12,879	2,793	74.9	61.6	13.4
1995–97	21,353	4,783	16,571	13,205	3,366	77.6	61.8	15.8
Physics								
1988–91	397	148	250	176	74	62.9	44.4	18.5
1992–94	402	117	285	180	104	70.8	44.9	26.0
1995–97	337	86	251	159	92	74.5	47.2	27.2
Chemistry								
1988–91	293	134	159	121	38	54.2	41.2	13.0
1992–94	360	148	213	163	50	59.0	45.2	13.8
1995–97	358	131	227	175	52	63.5	49.0	14.5
Earth and space sciences								
1988–91	846	239	608	352	256	71.8	41.5	30.3
1992–94	878	206	672	384	288	76.5	43.7	32.8
1995–97	999	175	825	438	386	82.5	43.9	38.7
Mathematics								
1988–91	83	29	54	35	19	65.2	42.1	23.0
1992–94	82	25	57	38	19	69.2	45.7	23.5
1995–97	62	18	45	34	10	71.7	55.1	16.6
Clinical medicine								
1988–91	11,864	2,734	9,130	8,224	906	77.0	69.3	7.6
1992–94	12,476	2,690	9,786	8,483	1,302	78.4	68.0	10.4
1995–97	12,795	2,597	10,198	8,559	1,639	79.7	66.9	12.8
Biomedical research								
1988–91	3,528	950	2,578	2,074	504	73.1	58.8	14.3
1992–94	3,865	920	2,945	2,225	720	76.2	57.6	18.6
1995–97	4,180	876	3,304	2,439	865	79.0	58.3	20.7
Biology								
1988–91	646	271	375	270	105	58.0	41.8	16.2
1992–94	631	236	395	282	113	62.6	44.7	17.9
1995–97	613	196	417	289	128	68.0	47.2	20.8
Engineering and technology								
1988–91	297	128	169	138	31	56.9	46.6	10.3
1992–94	299	112	187	146	42	62.7	48.7	13.9
1995–97	231	71	159	126	33	69.1	54.6	14.5
Psychology								
1988–91	445	138	307	285	22	69.0	64.0	4.9
1992–94	432	122	310	281	28	71.7	65.1	6.6
1995–97	382	100	282	256	26	73.9	67.1	6.8
Social sciences								
1988–91	686	347	339	269	71	49.5	39.2	10.3
1992–94	736	346	389	290	100	52.9	39.4	13.5
1995–97	682	276	405	306	100	59.5	44.8	14.6
Health and professional fields								
1988–91	773	341	431	409	23	55.8	52.9	2.9
1992–94	755	321	434	407	27	57.5	53.9	3.5
1995–97	714	256	457	423	34	64.1	59.3	4.8

NOTES: Coauthorships are based on authors' corporate addresses. Sectoral tables do not add to totals because articles are counted in each sector where there is an author.

SOURCES: Institute for Scientific Information, Science Citation Index and Social Science Citation Index; CHI Research, Inc., Science Indicators database; and National Science Foundation, Division of Science Resources Studies (NSF/SRS), special tabulation.

See page 6-44 in Volume 1.